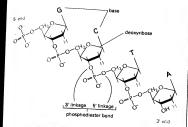
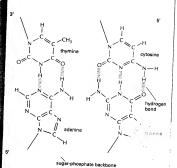
SUGAR-PHOSPHATE BACKBONE OF DNA



ELECTRON MICROGRAPH OF DNA



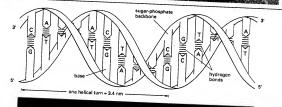
FOUR BASES AS BASE PAIRS OF DNA

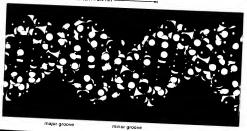


Specific hydrogen bonding between G and C and between A and T (A and U in RNA) generates complementary base-pairing.

DNA DOUBLE HELIX

in a DNA molecule two antiparallel strands that are complementary in their nucleotide sequence are paired in a right-handed double helix with about 10 nucleotide pairs per helical turn. A schematic representation (top) and a space-filling model (bottom) are illustrated here.





MOLECULAR BIOLOGY OF THE CELL THIRD EDITION

Bruce Alberts • Dennis Bray Julian Lewis • Martin Raff • Keith Roberts James D. Watson



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Front cover: The photograph shows a rat nerve cell in culture. It is labeled (yellow) with a fluorescent antibody that stains its cell body and dendritic processes. Nerve terminals (green) from other neurons (not visible), which have made synapes on the cell, are labeled with a different antibody. (Courtesv of Join Mundiel and Pietro de Camilli).

Dedication page: Gavin Borden, late president of Garland Publishing, weathered in during his mid-1980s climb near Mount McKinley with MBoC author Bruce Alberts and famous mountaineer guide Mugs Stump (1940–1992).

Back cover: The authors, in alphabetical order, crossing Abbey Road in London on their way to lunch. Much of this third edition was written in a house just around the corner. (Photograph by Richard Olivier.)